



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 11, 2020

Haley Wade  
Lead Regulatory Manager  
Control Solutions  
5903 Genoa Red Bluff  
Pasadena, TX 77505

Subject: PRIA Label Amendment – Amendment to add lawn and turf applications  
Product Name: CSI 16-119A L-N-P CS  
EPA Registration Number: 53883-427  
Application Date: 7/12/2019, 10/10/2018  
Decision Number: 553246 , 545512

Dear Ms. Wade:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

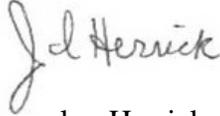
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2  
EPA Reg. No. 53883-427  
Decision No. 553246, 545512

with FIFRA section 6. If you have any questions, please contact me by phone at 703-347-0559, or via email at [herrick.jacquelyn@epa.gov](mailto:herrick.jacquelyn@epa.gov).

Sincerely,

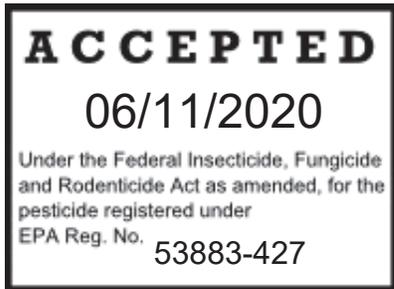
A handwritten signature in cursive script that reads "J. Herrick".

Jacquelyn Herrick, Product Manager 03  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

[Text in brackets and italics are notes to the label editor.]

[Text in brackets alone are optional statements or alternative statements.]



LAMBDA-CYHALOTHRIN	GROUP	3	INSECTICIDE
NOVALURON	GROUP	15	INSECTICIDE
PYRIPROXYFEN	GROUP	7	INSECTICIDE

# CSI 16-119A L-N-P CS

[CONTROLLED RELEASE INSECTICIDE ]

[Encapsulated Solutions]

[**ABN:** Cyzmic® Pro; Cyzmic® NXT; Cyzmic® Gold; Cyzmic® Elite; Cyzmic® Xtend; Cyzmic® XR, Proflex [CS], ]

[With CapVantage™ Technology ]

For use in, on and around buildings and structures for the control of listed pests on lawns, ornamental trees, ornamental grasses and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings; and parks, recreational areas, golf course out of play areas (including native planting areas, around clubhouses, outbuildings and on-course lavatories) and athletic fields.

### ACTIVE INGREDIENTS:

Lambda-cyhalothrin***	3.88%
Novaluron	1.30%
Pyriproxyfen+	1.30%

**OTHER INGREDIENTS:** .....93.52%

**TOTAL:** .....100.00%

+Lambda-cyhalothrin and Pyriproxyfen are encapsulated

\*\*Synthetic pyrethroid

Contains 0.34 lbs. Lambda-cyhalothrin, 0.11 lbs. Novaluron and 0.11 lbs. Pyriproxyfen per gallon.



ADAMA

Consumer & Professional Solutions

**Manufactured for:**  
Control Solutions, Inc.  
5903 Genoa Red Bluff  
Pasadena, TX 77507

EPA Reg. No: 53883-427

EPA Est. No: \_\_\_\_\_

Net Contents: \_\_\_\_\_

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**See additional precautionary statements and directions for use in attached booklet.**

<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.</p>	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run - off to water bodies or drainage systems. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not mix or allow coming in contact with oxidizing and reducing agent hazardous chemical reaction may occur. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**PRODUCT INFORMATION**

**CSI 16-119A L-N-P CS** is a formulation utilizing CapVantage™ Technology which is a proprietary blend of ingredients for use with the active ingredient Lambda-cyhalothrin. **CSI 16-119A L-N-P CS** is for use as a general surface (nonfood/nonfeed areas), crack and crevice, or spot treatment in, on, and around buildings and structures and their immediate surroundings, and on modes of transport. Areas of use: industrial buildings, houses, beneath awnings, porches, closets, furniture, apartment buildings, mobile homes, laboratories, buses, greenhouses (non-commercial), stores, factories, warehouses, wineries, vessels, railcars, trucks, trailers, aircraft (cargo and other non-cabin areas only), schools, nursing homes, hospitals, mausoleums, restaurants, hotels, correctional facilities, livestock/poultry housing, pet kennels, food granaries, food grain mills and food manufacturing, processing, and servicing establishments.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

**IMPORTANT:** Not for use on plants being grown for sale or other commercial use, or for commercial seed

production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on lawns or grounds.

### **Resistance-Management Recommendations**

For resistance management, please note that Proflex CS contains a Group 3/Lambda-Cyhalothrin, a Group 15/Novaluron and a Group 7 Pyriproxyfen insecticide. Any insect population may contain individuals naturally resistant to CSI 16-119A L-N-P CS and other Group 3 or Group 7C insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Control Solutions, Inc. at 800-242-5562 or at [controlsolutionsinc.com](http://controlsolutionsinc.com)

### **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

## **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

## **WIND**

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## **Handheld Technology Applications:**

- Take precautions to minimize spray drift

This product is RESTRICTED for use in New York State.

## **USE RESTRICTIONS**

- Do not allow children or pets to contact treated surfaces until spray has dried.
- For indoor applications, do not reapply CSI 16-119A L-N-P CS at less than 21-day intervals if re-treatment is necessary.
- DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.
- DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

## **Application Restrictions for Residential Outdoor Surface and Space Sprays:**

- All outdoor applications must be limited to spot or crack -and-crevice treatments only, except for the following permitted uses:
  1. Applications to soil or vegetation around structure;
  2. Applications to lawns, turf, and other vegetation;
  3. Applications to building foundations, up to a maximum height of 3 feet above grade;
  4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning or other structure;
  5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
  6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.
- Do not water the treated area to the point of runoff.
- Do not make applications during rain.
- Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm

drains, water bodies, or aquatic habitat can occur, except as directed by this label.

- In New York State, this product may not be applied to turf within 100 ft. of a coastal marsh or streams that drain into a coastal marsh.

### Mixing Instructions

Dilute **CSI 16-119A L-N-P CS** with water for application using hand-held or power-operated application equipment as a coarse spray for crack and crevice or spot and general surface (nonfood/ nonfeed areas only) treatments. Application equipment that delivers low volume treatments, such as the Actisol® applicator or other similar low volume spray equipment, may also be used to make crack and crevice or spot and general surface treatments. Fill applicator tank with the desired volume of water and add **CSI 16-119A L-N-P CS**. Close and shake before use in order to ensure proper mixing. Shake or re-agitate applicator tank before use if application is interrupted. Mix only amount of treatment volume as required. **CSI 16-119A L-N-P CS** may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment. If mixture is allowed to sit for more than 2 hours, shake well before application.

	% Active Ingredient in Dilution for Labeled Mix Rates	
	1.0 fl.oz. CSI 16-119A L-N-P CS Per Gallon of Water	2.0 fl.oz. CSI 16-119A L-N-P CS Per Gallon of Water
<b>Lambda-Cyhalothrin</b>	0.03%	0.06%
<b>Novaluron</b>	0.01%	0.02%
<b>Pyriproxyfen</b>	0.01%	0.02%
<b>Total Concentration of Actives</b>	0.05%	0.10%

### Tank Mixing

**CSI 16-119A L-N-P CS** may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add **CSI 16-119A L-N-P CS** last. If mixed with EC formulations, use within 24 hours. Fill tank to desired volume and continue to agitate while making applications.

### Foam Applications

**CSI 16-119A L-N-P CS** may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other listed arthropods harboring in walls, under slabs, or in other void areas.

### DILUTION CHART FOR STRUCTURAL PERIMETER BARRIER APPLICATIONS

Application Volume (Gallons of Solution per 1,000 ft <sup>2</sup> or 1,500 ft <sup>2</sup> )	Application rate (fl.oz. of CSI 16-119A L-N-P CS per 1,000 sq. ft.)	Fl. Oz. of CSI 16-119A L-N-P CS to Dilute in Water According to Spray Tank Volumes				
		1 gallon	5 gallons	10 gallons	15 gallons	50 gallons
1 gallon	1.0 fl. oz.	1.0	5.0	10.0	15.0	50.0
	2.0 fl. oz.	2.0	10.0	20.0	30.0	100.0
2 gallons	1.0 fl. oz.	-	2.5	5.0	7.5	25.0
	2.0 fl. oz.	-	5.0	10.0	15.0	50.0
5 gallons	1.0 fl. oz.	-	1.0	2.0	3.0	10.0
	2.0 fl. oz.	-	2.0	4.0	6.0	20.0

## FOOD HANDLING ESTABLISHMENTS

**(Places other than private residences in which food is held, processed, prepared, or served):**

**Application within Food Serving Areas:** For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards, under elements of construction, and into cracks and crevices. Do not treat surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

**NOTE:** Only apply this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments as a spot and/or crack and crevice treatment. Limit the use of application equipment to those such as an Actisol® applicator or similar low volume application equipment in food areas to crack and crevice treatment only.

Food/feed handling establishments are any place other than private residences where exposed food/feed is held, processed, prepared or served, including areas for receiving, storing, packing (bottling, boxing, canning, wrapping), preparing, enclosed processing systems (dairies, edible oils, mills, syrups) of food and edible waste storage. Serving areas where food is exposed and the facility is in operation are also considered food areas.

Nonfood areas in which applications are allowed include entries and vestibules, floor drains (to sewers), garages, garbage rooms, lavatories, locker rooms, machine rooms, mop closets, offices, and storage (after canning or bottling).

If used as a spot or crack and crevice treatment, CSI 16-119A L-N-P CS may be applied in both food/feed and nonfood areas of food/feed handling establishments.

Use as a crack and crevice or spot treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Clean food contact surfaces and equipment with an effective cleaning compound and rinse with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treatable surface. Individual spot treatments may not exceed two sq. ft. Take extreme care that the product is not introduced into the air. Do not contaminate food and food processing surfaces.

Use sites that are allowed include: Aircraft (cargo areas only), apartments, buildings, bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food manufacturing plants, food processing plants, food service establishments, granaries, grain mills, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes, offices, railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses†, wineries.

†WAREHOUSES and GROCERY/PET STORES: CSI 16-119A L-N-P CS dilution may be applied as a surface, spot or crack and crevice treatment in food and nonfood storage warehouses and stores. Apply to all areas that may harbor pests, including under and between pallets, bins, and shelves. Do not apply directly to food, grain bins (interior), or animals.

**RATES FOR PESTS:**

**ANTS (Including Imported Fire Ants):**

Use Sites	Application Method	Application Rate	Use Directions
Interior General Surface Application	Low-pressure Spray, Crack and Crevice, Pinstream, Spot or Similar Application	2 oz. per gallon of water  <u>Spray Rate:</u> 1 gallon per 1,000 ft <sup>2</sup>	Apply to any trails around doors and windows and other places where ants may be found. Locate and treat nests. Where ants are trailing inside, apply as a residual surface treatment to active areas such as baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining baits and residual surface insecticides, apply surface insecticides in cracks and crevices, along baseboards, and infested surfaces and outside barrier treatments. Use baits in other areas that are untreated by repellent insecticides.  Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 21 days.
Exterior Perimeter or Around Foundation Walls	Low Pressure Sprayer or Similar Application	2 oz. in a sufficient amount of water (minimum of 1 gallon) to cover 1,000 ft <sup>2</sup>	Apply to exterior perimeter or around foundation walls where ants are actively foraging and in a band 6-10 feet wide adjacent to the foundation wall of the building.  Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.  Prior to outside perimeter treatments, to increase effectiveness of the application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation.

**USE RESTRICTIONS:**

- In the home, cover all food processing surfaces and utensils during treatment and thoroughly wash before reuse. Remove exposed food.
- Do not permit humans or pets to contact treated surfaces until the spray has dried.
- Applications to building foundations are restricted to a maximum height of 3 feet above grade.

**BED BUGS:**

Use Sites	Application Method	Application Rate	Use Directions
Interior General Surface Application	Low-pressure Spray, Crack and Crevice, Pinstream, Spot or Similar Application	1 oz. per gallon of water  <u>Spray Rate:</u> 1 gallon per 1,000 ft <sup>2</sup>	Clean floors and surfaces by vacuuming. Apply as a coarse, low-pressure spray to harborage areas including crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to box springs and bed frames.  Only if there are signs of renewed activity, repeat application every 14 days.

**USE RESTRICTIONS:**

- Do not apply to furniture surfaces or mattresses where people will be laying or sitting.
- Do not treat infested bedding, instead place items in sealed plastic bags, and take for laundering and drying at high temperatures.

**COCKROACHES, CRICKETS, EARWIGS, FIREBRATS, SILVERFISH, AND STINK BUGS:**

Use Sites	Application Method	Application Rate	Use Directions
Interior General Surface Application, including Crack and Crevice or Spot Spray	Low-pressure Sprayer	2 oz. per gallon of water  <u>Spray Rate:</u> 1 gallon per 1,000 ft <sup>2</sup>	Contact as many insects as possible. Apply as a coarse, low pressure spray to all areas where these pests may hide paying attention to places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets.  Repeat application every 21 days only if there are signs of renewed activity.
Outdoor Perimeter Treatments	Low-pressure Sprayer	2 oz. in a sufficient amount of water (minimum of 1 gal.) to cover 1,000 ft <sup>2</sup> in a band 2 to 4 ft wide adjacent to & around structure.	Apply the band up to 10 ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active. Apply spray around window frames, doors, garage doors, beneath awnings, decks, carports, shutters, around garbage areas, sill plate and other areas where cockroaches may congregate.  Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.

			Prior to outside perimeter treatments, to increase effectiveness of the application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation.
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<p><b>USE RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• In the home, cover all food processing surfaces and utensils during treatment and thoroughly wash before reuse. Remove exposed food.</li> <li>• Do not permit humans or pets to contact treated surfaces until the spray has dried.</li> <li>• Do not spray into the air; only spray onto the specific use sites.</li> <li>• Applications to building foundations are restricted to a maximum height of 3 feet above grade.</li> </ul>
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**FLEAS AND TICKS:**

Two of the active ingredients in CSI 16-119A L-N-P CS are Novaluron and Pyriproxyfen, both are insect growth regulators. Insect growth hormones are naturally occurring in insects and CSI 16-119A L-N-P CS prevents the adult flea from developing. These properties will gradually result in the reduction of the flea population. Flea eggs and flea larvae that come into contact with CSI 16-119A L-N-P CS will also not develop into adult fleas. CSI 16-119A L-N-P CS works for up to 7 months by inhibiting the development of the immature stages of the flea and preventing them from reaching the biting adult stage.

Application of CSI 16-119A L-N-P CS prior to the flea season will aid in reducing developing populations. Apply to areas where pets and other animals are known to frequent and where previous infestations have been known to occur to prevent the emergence of adult fleas and also control stages of fleas that don't resemble adult fleas.

Spray Mixing: Partially fill the mixing container with water, add CSI 16-119A L-N-P CS, agitate and fill to the final volume. Agitate before each use. Do not allow spray mixture to stand overnight.

Use Sites	Application Method	Application Rate	Use Directions
Interior Kennels and Doghouses (building, resting areas, walls, floor, animal bedding, & run areas)	Adjustable Hose-End Sprayer, Backpack Mister, Tank Type Sprayer, Sprinkling Can or Low Pressure Sprayer	1 oz. per gallon of water  <u>Spray rate:</u> 1 gallon per 1,500 ft <sup>2</sup>	Treat pets and their bedding with EPA registered flea and tick control products, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program. Repeat application at 7 month intervals or as needed, but not more than every 21 days. Follow use directions for other EPA registered products that are used in conjunction with CSI 16-119A L-N-P CS and use the most restrictive language where applicable.  Applications can begin in the spring and can continue until frost to control both larvae and adult ticks.
Exterior Animal	Adjustable	1 oz. in a sufficient	To control ticks, apply to vegetation brush,

<p>Runs, Lawns, Trees, Ornamental Plants &amp; Shrubs and other areas where animals are known to rest</p> <p>For recreational areas, golf course out of play areas, native plantings, landscape beds, ornamental grasses, around clubhouse buildings, maintenance facilities, pump houses and on-course lavatories</p>	<p>Hose-End Sprayer, Backpack Mister, Tank Type Sprayer, Sprinkling can or Low Pressure Sprayer</p>	<p>amount of water (minimum 1 gallon) to cover 1,500 ft<sup>2</sup></p>	<p>branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Treat entire area rather than making spot treatments, and retreat as necessary to maintain control.</p> <p>Application on soil surfaces will provide 21 days of IGR activity. If needed, repeat treatments may be made 14 days after last treatment or, if heavy rainfall occurs, repeat as necessary.</p>
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- USE RESTRICTIONS:**
- Remove pets prior to spraying treatment area.
  - Do not permit humans or pets to contact treated surfaces until the spray has dried.
  - Do not spray into the air; only spray onto the specific use sites.
  - Do not spray when wind conditions could create a mist to blow back to applicator.
  - Do not apply this product in or around bodies of water.
  - Do not soak young or flowering plants.
  - Applications to building foundations are restricted to a maximum height of 3 feet above grade.
  - Do not apply to pasture or cropland.

**FLYING INSECT PESTS (Such as Flies, Moths, Midges, Mosquitoes and Gnats):**

CSI 16-119A L-N-P CS may be used for the control of house flies, stable flies, moths, mosquitoes, nuisance flies (gnats, midges) and other similar flying pest insects. The insect growth regulators in CSI 16-119A L-N-P CS cause a decrease in the number and hatching of eggs laid by treated adults. Fly larvae (maggots) treated with CSI 16-119A L-N-P CS cannot develop into normal adults.

CSI 16-119A L-N-P CS may be used for control of flying insect pests in, on and around residential, commercial, public, industrial and agricultural buildings. CSI 16-119A L-N-P CS may be used to control nuisance flies, gnats, midges, and mosquitoes by application into moist breeding areas (potted plants, moist debris or litter) or into areas holding standing water such as gutters, drains, pools and fountains.

Use Sites	Application Method	Application Rate	Use Directions
<p>Interior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings</p>	<p>General Surface (including Broadcast, Spot and Crack and Crevice)</p>	<p>1 oz. per gallon of water</p> <p><u>Spray Rate:</u> 1 gallon per 1,500 ft<sup>2</sup> or 1,000 linear feet for crack and crevice</p>	<p>Contact as many insects as possible. Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds. Thoroughly spray all areas where these pests may hide paying attention to places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets.</p> <p>Repeat application only if there are signs of renewed activity and do not exceed one application every 21 days.</p>
<p>Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings</p> <p>For recreational areas, golf course out of play areas, native plantings, landscape beds, ornamental grasses, around clubhouse buildings, maintenance facilities, pump houses and on-course lavatories</p>	<p>General Surface (including Broadcast, Spot and Crack and Crevice)</p>	<p>1 oz. in a sufficient amount of water (minimum 1 gallon) to cover 1,500 ft<sup>2</sup> or 1,000 ft<sup>2</sup> linear feet for crack and crevice</p>	<p>Apply to outside surfaces of buildings, porches, beneath awnings, garages and other covered areas where these pests have been seen or found. To help prevent infestations of buildings by flying insects, treat soil, vegetation or other substrates in a band 6-10 feet wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage.</p> <p>For surface applications, thoroughly wet doors, around windows, garbage and refuse areas. Apply to foliage and ornamental plants as well as into moist breeding areas such as potted plants, moist debris or litter. Control will be enhanced when facilities are cleaned and interior applications are supplemented with products registered for exterior perimeter treatments.</p> <p>Prior to outside perimeter treatments, to increase effectiveness of the application remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation.</p>

<p>Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings</p> <p>For recreational areas, golf course out of play areas, native plantings, landscape beds, ornamental grasses, around clubhouse buildings, maintenance facilities, pump houses and on-course lavatories</p> <p>(For Mosquito Control Only)</p>	<p>Hand-held and Back Pack Sprayers or Mist Blowers, Ground Sprayers, Power Sprayers</p>	<p>1 oz. in 2 – 5 gallons per 1000 ft<sup>2</sup> (*see dilution chart below for additional information)</p>	<p>Apply as a spray where mosquitoes may rest, harbor or breed, contacting as many mosquitoes as possible. This includes, but is not limited to, tall grass, foliage, landscape plantings, building foundations, soil beneath decks, backyards and lawns. The ideal target area is the bottom 20 feet of trees. Pay particular attention to the underside of plant leaves and resting sites.</p> <p>Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure, or if there are signs of renewed insect activity. Do not apply more than once every 14 days.</p> <p>Do not apply by air or with hand held or truck mounted cold aerosol ULV sprayers and thermal fogging devices.</p> <p>For best results apply when the mosquitoes are most active. Apply during the cooler hours of the night or early mornings.</p> <p>Do not spray in or near fish ponds or other bodies of water.</p>
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**USE RESTRICTIONS:**

- In the home, cover all food processing surfaces and utensils during treatment and thoroughly wash before reuse. Remove exposed food.
- Do not permit humans or pets to contact treated surfaces until the spray has dried.
- Do not spray into the air; only spray onto the specific use sites.
- Applications to building foundations are restricted to a maximum height of 3 feet above grade.
- Do not make outdoor broadcast applications when wind speed is 15 mph or greater.

**\*Dilution chart for mosquito control applications only**

Application Volume gals. Of Solution per 1,000 sq. ft.	Application Rate fl. oz. of CSI 16-119A L-N-P CS per 1,000 sq. ft.	Fl. oz. of CSI 16-119A L-N-P CS to Dilute in Water According to Spray Tank		
		Volumes		
		5 gallons	10 gallons	50 gallons
2 gallons/ 1000 ft <sup>2</sup>	1 fl. oz.	2.5	5	25
3 gallons/ 1000 ft <sup>2</sup>	1 fl. oz.	1.7	3.4	16.7
4 gallons/ 1000 ft <sup>2</sup>	1 fl. oz.	1.25	2.5	12.5
5 gallons/ 1000 ft <sup>2</sup>	1 fl. oz.	1	2	10

**STORED PRODUCT PESTS (Including Carpet Beetles, Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Saw-toothed Grain Beetles, Warehouse Beetles, Cigarette Beetles, and Dermestid Beetles):**

Spray Mixing for Surface, Spot, Crack and Crevice Application: Prepare a diluted spray solution by adding 1.5 fluid ounces of CSI 16-119A L-N-P CS per gallon of water. Partially fill the mixing container with water, add CSI 16-119A L-N-P CS, agitate and fill to final volume. Agitate before each spray application.

Use Sites	Application Method	Application Rate	Use Directions
<p>General Surface Application, including Crack and Crevice</p> <p>Food Serving Areas/Surfaces, Non-food Serving Areas/Surfaces</p>	<p>Pressurized spray system capable of delivering a pin-point or variable spray pattern</p> <p>Low-pressure Sprayer</p>	<p>1.5 fl. oz. per gallon of water</p> <p><u>Spray rate:</u> 1 gallon per 1,500 ft<sup>2</sup></p>	<p>For treatment of food processing and food handling establishments and in food and non-food storage warehouses repeat application in 90 days. (Places other than private residences in which food is held, processed, prepared, or served.)</p> <p><b>Crack and Crevice applications</b> may be made directly to cracks and crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas.</p> <p><b>Spot treatments</b> may also be made around storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, drawers and similar areas.</p> <p>Contact as many insects as possible.</p>
<p><b>USE RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items.</li> <li>Destroy any foodstuff accidentally contaminated with treatment solution.</li> </ul>			

- Do not permit humans or pets to contact treated surfaces until the spray has dried.
- Do not spray into the air; only spray onto the specific use sites.
- During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.
- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Do not touch sprayed surfaces until spray has completely dried.

**BOXELDER BUGS, CENTIPEDES, MILLIPEDES, PILLBUGS, AND SOW BUGS:**

Use Sites	Application Method	Application Rate	Use Directions
Interior General Surface Application, including Crack and Crevice or Spot Spray in, or and around listed sites.	Low-pressure Sprayer	1 oz. per gallon of water  <u>Spray Rate:</u> 1 gallon per 1,000 ft <sup>2</sup>	Apply around doors and windows, storage areas, baseboards and other sites where these pests may be found.  Repeat application only if there are signs of renewed activity and must not exceed one application every 21 days.
Outdoor Perimeter Treatments	Low-pressure Sprayer	1 fl. oz in a sufficient amount of water (minimum 1 gallon) to cover 1,000 ft <sup>2</sup>	Apply at a height of 2 to 3 feet on the foundation in a band 6 to 10 feet wide adjacent to and around the structure where pests may be active or may find entrance. Apply spray around window frames, doors, garage doors, beneath awnings, decks, carports, shutters, around garbage areas, sill plate and other areas where pests may congregate.

- USE RESTRICTIONS:**
- In the home, cover all food processing surfaces and utensils during treatment and thoroughly wash before reuse. Remove exposed food.
  - Do not permit humans or pets to contact treated surfaces until the spray has dried.
  - Do not spray into the air; only spray onto the specific use sites.
  - Applications to building foundations are restricted to a maximum height of 3 feet above grade.
  - Prior to outside perimeter treatments, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation.

### LIVESTOCK AND POULTRY HOUSING STRUCTURES

Controls pests of poultry and livestock facilities, including biting flies, filth-breeding flies, fleas, litter beetles, hide beetles, bed bugs, mites and ticks. Apply as a general surface (including directed spray) and/or crack and crevice treatment.

Control is enhanced when facilities are cleaned and interior and exterior perimeter applications are made in and around the livestock or poultry housing structures. Normal cleaning practices of the structure also must be followed along with applications of CSI 16-119A L-N-P CS to effectively control crawling and flying insect pests.

To control bed bugs, mites and ticks in animal facilities, treat cracks/crevices, walls, posts, nest boxes and mobile side curtains.

For adult fly control in and around animal facilities, spray application to target areas where flies will rest, such as the ceiling, rafters and trusses. Also treat windows, interior and covered exterior walls and supports, fences and vegetation. CSI 16-119A L-N-P CS may be sprayed on manure in areas where fly larvae are abundant and the area cannot be cleaned.

Allow CSI 16-119A L-N-P CS to dry before applying disinfectants.

Insecticide Class Rotations: In order to avoid problems with developed resistance to insecticides it is important to rotate to an insecticide of a different class each 2-3 flocks. It is best to attempt to use 3 different classes of insecticides during a calendar year.

#### RESTRICTIONS:

- Do not treat birdcages or stock pens when animals are present.
- Do not apply CSI 16-119A L-N-P CS directly to animals.
- Do not allow animals back in treated areas of facility until treated areas have dried.
- Do not apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.
- Do not apply CSI 16-119A L-N-P CS to any animal feed, water or watering equipment.
- Do not contaminate any animal feed, food or water in and around livestock or poultry housing when making applications.
- Do not make interior applications of CSI 16-119A L-N-P CS in areas of facility where animals are present.

Use Sites	Application Method	Application Rate	Use Directions
Unoccupied areas of poultry facilities	General Surface, Crack and Crevice and Spot Spray	1 fl. oz per gallon of water  <u>Spray Rate:</u> 1,500 sq. feet.	Apply to floor area (birds grown on litter) or to walls, posts and cage framing (birds grown in cages). Apply into cracks and crevices around insulation. Reapply after each grow out or de-caking and sanitization procedure.  Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 1 - 3 ft. up and 2 - 6 ft. out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

			<p>For control of beetles, in houses containing birds grown on litter and in broiler-breeder houses, apply to litter after birds are removed and during tilling. If litter is removed and replaced with fresh litter, apply to bare soil or concrete, and treat new litter after it is spread. Apply spray to inside walls, posts and exterior perimeter. Reapply between each flock.</p> <p>To control beetles in caged-layer houses, do not treat accumulated manure as it will likely disrupt natural enemies that control fly breeding. Instead, treat the perimeter of the manure. Also spray pit walls, posts and exterior of structure.</p> <p>Reapply between each flock.</p>
Unoccupied areas of livestock facilities	General Surface, Crack and Crevice and Spot Spray	<p>1 fl. oz per gallon of water</p> <p><u>Spray Rate:</u> 1,500 sq. feet.</p>	<p>Apply to floors, vertical and overhead surfaces where crawling or flying insect pests may be present.</p> <p>Feeders, waterers and feed carts must be covered before application to prevent contamination. Do not apply to milk rooms. Pay attention to animal areas including stanchions, pipes, windows, doors and areas where insect pests hide or congregate.</p> <p>If needed, repeat application 14 days after previous treatment or if heavy rainfall occurs.</p>

### LAWNS/TURFGRASS AND ORNAMENTALS

**CSI 16-119A L-N-P CS** may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown: residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Application rates for turf and ornamentals are lower than structural pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of **CSI 16-119A L-N-P CS** away from structures, such as to turf and ornamental plantings. Structural pest control certification categories may limit the distance away from structures for pesticide application. Consult your state extension office or pesticide regulatory officials for further information.

**IMPORTANT:** Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

#### RESTRICTIONS:

- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product to edible crops.
- DO NOT apply this product by aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, DO

NOT apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

- DO NOT make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
- In the state of New York, **DO NOT** apply within 100 ft. of coastal marshes or streams that drain into coastal marshes.

### **Mixing Instructions**

CSI 16-119A L-N-P CS is to be mixed with water and may be used in all types of standard application equipment. Fill applicator tank with the desired volume of water and add CSI 16-119A L-N-P CS. It is suggested that the water be 5 - 7 pH. Adjust water pH with a buffering agent if necessary. Slowly add CSI 16-119A L-N-P CS to applicator tank water with maximum agitation. Close and shake or re-agitate applicator tank before use if application is interrupted. Make up only amount of treatment volume as required.

### **Tank Mixing**

CSI 16-119A L-N-P CS may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add CSI 16-119A L-N-P CS last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours.

Follow all restrictions and precautions which appear on the labels of these products.

**It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.**

### **INSECT CONTROL on ORNAMENTAL PLANTS**

CSI 16-119A L-N-P CS is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

NOTE: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution.

It is advised to pre-spray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

### **RESTRICTIONS:**

- DO NOT apply more than 0.36 lbs. of lambda-cyhalothrin, 0.12 lbs. of novaluron, and 0.12 lbs. of pyriproxyfen (135.3 fl. oz. CSI 16-119A L-N-P CS) per acre per year.

**TANK DILUTION RATES FOR ORNAMENTAL PESTS**

PEST	AMOUNT OF CSI 16-119A L-N-P CS	APPLICATION INSTRUCTIONS
<p>Ants (excluding Carpenter, Harvester, Pharaoh, and Red Imported fire Ants)</p> <p>Armyworms</p> <p>Azalea caterpillars</p> <p>Aphids</p> <p>Bagworms</p> <p>Black vine weevils (adult)</p> <p>Boxelder bugs</p> <p>Budworms</p> <p>California oakworms</p> <p>Cankerworms</p> <p>Crickets</p> <p>Cutworms</p> <p>Eastern tent caterpillars</p> <p>Elm leaf beetles</p> <p>European sawflies</p> <p>Fall webworms</p> <p>Flea beetles</p> <p>Forest tent caterpillars</p> <p>Gypsy moth larvae</p> <p>Japanese beetles (adults)</p> <p>June beetles (adults)</p> <p>Lace bugs</p> <p>Leaf-feeding caterpillars</p> <p>Leafhoppers</p> <p>Leafminers (adults)</p> <p>Leaf rollers</p> <p>Leaf skeletonizers</p> <p>Midges</p> <p>Oleander moth larvae</p> <p>Pillbugs</p> <p>Pine sawflies</p> <p>Pine shoot beetles</p> <p>Pinetip moths</p> <p>Plant bugs</p> <p>Root weevils</p> <p>Sawflies</p> <p>Scale insects (crawlers)</p> <p>Spiders (excluding black widow and brown recluse)</p> <p>Spittlebugs</p> <p>Stink bugs</p> <p>Striped beetles</p> <p>Striped oakworms</p> <p>Thrips</p> <p>Tip moths</p>	<p>2.8 – 9.4 fl. oz. per 100 gals.</p> <p>or</p> <p>83 - 278 mL per 100 gals.</p>	<p>Application to ornamentals should be started prior to the establishment of high insect pest populations.</p> <p>Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.</p> <p>Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at labeled rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.</p> <p>For spot treatments use 1.0 fl. oz. <b>CSI 16-119A L-N-P CS</b> per 1 - 2.5 gals. of water.</p> <p>Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.</p> <p><b>Scale:</b> Thoroughly cover the plant with <b>CSI 16-119A L-N-P CS</b> spray, including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).</p> <p><b>Bagworm:</b> Apply <b>CSI 16-119A L-N-P CS</b> when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.</p>

Tussock moth larvae		
Broadmites Brown softscales California redscales (crawlers) Clover mites Mealybugs Pineneedlescales (crawlers) Spider mites Whiteflies	5.6 – 9.4 fl. oz. per 100 gals  or  166 - 278 mL per 100 gals.	

### CSI 16-119A L-N-P CS Mixing Chart for Ornamental Insect Pest Control

#### (CSI 16-119A L-N-P CS to add per spray tank)

Rate of CSI 16-119A L-N-P CS	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
2.8 fl. oz. <sup>1</sup>	0.7 fl. oz.	1.4 fl. oz.	2.8 fl. oz.	5.6 fl. oz.	8.4 fl. oz.
5.6 fl. oz. <sup>2</sup>	1.4 fl. oz.	2.8 fl. oz.	5.6 fl. oz.	11.2 fl. oz.	16.8 fl. oz.
9.4 fl. oz. <sup>3</sup>	2.35 fl. oz.	4.7 fl. oz.	9.4 fl. oz.	18.8 fl. oz.	28.2 fl. oz.
<sup>1</sup> Equivalent to 6.64 mL per 1,000 sq. ft. (9.8 fl. oz. per acre) when applied at 8 gal. per 1,000 sq. ft.					
<sup>2</sup> Equivalent to 13.28 mL per 1,000 sq. ft. (19.5 fl. oz. per acre) when applied at 8 gal. per 1,000 sq. ft.					
<sup>3</sup> Equivalent to 22.24 mL per 1,000 sq. ft. (14 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.					

### LAWN/TURFGRASS INSECT PEST CONTROL

CSI 16-119A L-N-P CS is for use to control the pests listed in the table below around: residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

#### RESTRICTIONS:

- KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION.
- DO NOT apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- DO NOT apply more than 0.36 lbs. of lambda-cyhalothrin, 0.12 lbs. of novaluron, and 0.12 lbs. of pyriproxyfen (135.3 fl. oz. CSI 16-119A L-N-P CS) per acre per year.

#### RATES FOR LAWN AND TURFGRASS PESTS

PEST	AMOUNT OF CSI 16-119A L-N-P CS*	APPLICATION INSTRUCTIONS
Ants	6.4 – 12.8 mL	Application to turf should be started prior to the

<p>Armyworms Chinch Bugs<sup>1</sup> Crickets Cutworms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adult) Millipedes Mites Pillbugs Sod webworms Sow bugs Stink Bugs Ticks (including species which may transmit Lyme disease)</p>	<p>per 1,000 sq. ft. or 9.4 -18.8 fl. oz. per acre</p>	<p>establishment of high insect pest populations and significant turf damage. Make reapplications as necessary to keep pest populations under control, using higher rates as pest pressure increases.</p> <p>Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments.</p> <p>For spot treatments, use 1.0 fl. oz. of <b>CSI 16-119A L-N-P CS</b> per 1 - 2.5 gals. of water.</p> <p><b>Surface Insect Control (armyworm, cutworms, fleas, etc.):</b> Apply <b>CSI 16-119A L-N-P CS</b> at labeled rates in 2 - 5 gals. of water per 1,000 sq. ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 - 24 hours to control surface-feeding insect pests.</p>
<p>Bluegrass billbugs (adult) Black turfgrass ataenius (adult) Chiggers Fleas (adult) Grubs (suppression) Hyperodes weevils (adult) Mole crickets (nymphs and young adults)</p>	<p>12.8 ml per 1,000 sq. ft or 18.8 fl. oz. per acre</p>	<p><b>Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.):</b> Apply <b>CSI 16-119A L-N-P CS</b> at labeled rates in 2 - 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to 1/2 inch of water to move the <b>CSI 16-119A L-N-P CS</b> into the thatch layer. If irrigation is not available, then use high water application rates.</p> <p><b>Subsurface Insect Control (mole crickets, grubs, etc.):</b> Apply <b>CSI 16-145 Lambda-cyhalothrin</b> at labeled rates in 4 - 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply <b>CSI 16-119A L-N-P CS</b> to turf wet with dew, rain or irrigation. Water-in immediately after application with ¼ - ½ inch of water.</p> <p><b>Fire Ant Control:</b> Treat individual mounds with a drench application using a watering can. Use 0.5 fl. oz. of <b>CSI 16-119A L-N-P CS</b> per 2.5 gals. of water. Thoroughly soak each mound and a 3 ft.</p>

		<p>diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening hours. You may make applications on a monthly basis to maintain protection of treated areas.</p> <p><b>Mosquito Control:</b> Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply <b>CSI 16-119A L-N-P CS</b> at labeled rates in 2 - 5 gals. of water per 1,000 sq. ft.</p>
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<sup>1</sup> Not for use on chinch bugs in New York state.

\* Example: To treat the listed turf pests at the 12.8 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 12.8 mL and divide it by the 5 (gallon) to get 2.56 mL to be added per gallon. For a 50 gallon tank, therefore, this would be 2.56 mL X 50 = 128 mL (or 4.3 fl. oz.) in 50 gallons of water.

**CSI 16-119A L-N-P CS Mixing Chart for Turf Insect Pest Control**

(CSI 16-119A L-N-P CS to add per 100 gal. spray tank)

Rate of CSI 16-119A L-N-P CS	Application Rate Per 1,000 Square Feet of Turf				
	2 Gallons	4 Gallons	6 Gallons	8 Gallons	10 Gallons
9.4 fl. oz. per acre	11 fl. oz.	5.5 fl. oz.	3.7 fl. oz.	2.8 fl. oz.	2.2 fl. oz.
18.8 fl. oz. per acre	22.1 fl. oz.	11 fl. oz.	7.4 fl. oz.	5.5 fl. oz.	4.4 fl. oz.

Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL).

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE AND SPILL PROCEDURES:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller’s earth, etc. Dispose of with chemical waste.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**CONTAINER HANDLING:**  
*For Containers equal to or less than 5 Gallons:* Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill

*For Containers greater than 5 Gallons:* Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill.

#### **LIMITATION OF WARRANTY AND LIABILITY**

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Control Solutions, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

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## **[OPTIONAL MARKETING STATEMENTS]**

### *[Miscellaneous Efficacy related claims]*

- Effective control of Fleas, Roaches, Flies, Mosquitoes, Gnats, Crickets, Litter Beetles & Ants
- Effective control of listed pests
- Continuous protection against stored product pests for 3 months.
- Breaks the cycle of insect reproduction to control Fleas, Stored Product Pests, Cockroaches, Flies, Lone Star Ticks, and other listed insect pests
- Reduces egg production in houseflies and prevents development of larvae into adults.
- Breaks the lifecycle of listed pests

### *[Flea Efficacy related claims]*

- Inhibits re-infestation by fleas for up to 7 months.
- Kills pre-adult [larval] fleas, including eggs for up to [210 days] [30 weeks] [7 months]
- Stops [prevents] fleas from developing into egg laying adults.
- Inhibits re-infestation by fleas for up to [210 days] [30 weeks] [7 months]
- If adult fleas are introduced from untreated areas, their offspring will not become biting [reproductive] adult
- Disrupts [Breaks] the life cycle of fleas
- Two [2] applications per year, keep fleas under control

### *[Cockroach Efficacy Related Claims]*

- Inhibits re-infestation by listed cockroaches for up to 6 months.
- One treatment works for [180 days] [6 weeks] [6 months] against hatching cockroaches [nymphal (preadult) cockroaches] [hatching eggs (nymphs)] and crickets.
- Stops [prevents] fleas and cockroaches from developing into egg laying adults.
- One treatment stops listed cockroaches from generating reproductive offspring for up to [180 days] [26 weeks] [6 months]
- Interrupts [breaks] the life cycle of listed cockroaches
- Inhibits re-infestation by listed cockroaches for [180 days] [26 weeks] [6 months]
- Effectively controls listed cockroach populations by preventing reproduction [thereby killing future generations]
- Prevents [inhibits] listed nymphal cockroaches from becoming adults [breeding adults] [reproductive adults] [egg laying adults]

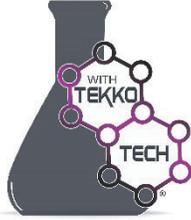
### *[Mosquito Efficacy Related Claims]*

- Kills mosquitos that may transmit [the] [Dengue] [Zika] [Chikungunya] [and] [West Nile] virus.

### *[Use/Formulation related claims]*

- For use in Animal Quarters, Kennels and Poultry Houses
- For indoor/outdoor use
- Intended for Pest Control Operators and Commercial Use Only
- Microencapsulated Insecticide with Insect Growth Regulators for Control of Fleas, Stored Product Pests, Cockroaches, Crickets, Litter Beetles, and Flying Insects.
- Microencapsulated formulation with three/3 modes of action
- Triple threat against listed pests
- Labeled for use in food areas of food handling establishments.
- Labeled for Spot and/or Crack and Crevice use in food-handling establishments.

- Contains adulticide and [two] [2] insect growth regulators [IGRs]
- Combination Chemistry™ [from Control Solutions][ Inc.]
- Contains Tekko® Technology
- With Tekko® Technology
- For control of Fleas, listed Cockroaches, Crickets & listed Flying Insects (such as Mosquitoes & Gnats)



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- Convenient [combination][all-in-one] product
- Encapsulated Solutions



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